

# Installing and Configuring Windows Server 2012 (20410)

- **Formato do curso:** Presencial
- **Com certificação:** Microsoft Certified Solutions Associate (MCSA)
- **Preço:** 1630€
- **Nível:** Intermédio
- **Duração:** 35 horas

Este curso permite aos formandos adquirir conhecimentos na instalação configuração do Windows Server 2012 e Windows Server 2012 r2. Este curso é o primeiro de uma serie de três cursos com o objetivo de abordar os seguintes tópicos:

- Implementação e configuração de core services, tais como:
  - Networking;
  - Storage;
  - Active Directory Domain Services (AD DS);
  - Group Policy;
  - File and Print Services;
  - Hyper-V.

## Destinatários

- Profissionais IT que desejam seguir uma carreira em sistemas Microsoft;
- Administradores de sistemas Microsoft juniores;
- Administradores de sistemas que desejam migrar para tecnologias Microsoft;
- Administradores de sistemas que desejam iniciar o percurso MCSA: Windows Server 2012
- Administradores de sistemas que desejam prosseguir para certificações MCSE.

## Pré-requisitos

- Fundamentos de Redes de Computador: TCP/IP, UDP e DNS;
- Fundamentos de Microsoft Active Directory Domain Services;
- Fundamentos de hardware de servidor;
- Fundamentos de boas práticas em segurança;
- Utilização de sistemas operativos cliente em ambiente empresarial.

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## Objectivos

No final da ação de formação os participantes deverão estar aptos a:

- Instalação e configuração do Windows Server 2012;
- Descrição de AD DS;
- Gestão de objetos Active Directory;
- Automatização da administração da Active Directory;
- Implementação IPv4;
- Implementação Dynamic Host Configuration Protocol (DHCP);
- Implementação Domain Name System (DNS);
- Implementação IPv6;
- Implementação local storage;
- Implementação file and print services;
- Implementação Group Policy;
- Secure Windows servers by using Group Policy Objects (GPOs);
- Implementação de virtualização com a solução Hyper-V.

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## Metodologia

Pode assistir a este curso de forma:

- Presencial
- [Live Training](#)
- [MOC On-demand](#)

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## Programa

### **Deploying and Managing Windows Server 2012**

- Windows Server 2012 R2 Overview
- Installing Windows Server 2012 R2
- Post-Installation Configuration of Windows Server 2012 R2
- Overview of Windows Server 2012 R2 Management
- Introduction to Windows PowerShell
- Lab : Deploying and Managing Windows Server 2012 R2
  - Deploying Windows Server 2012 R2
  - Configuring Windows Server 2012 R2 Server Core
  - Managing Servers
  - Using Windows PowerShell to Manage Servers

### **Introduction to Active Directory Domain Services**

- Overview of AD DS
- Overview of Domain Controllers
- Installing a Domain Controller
- Lab : Installing Domain Controllers
  - Installing a Domain Controller
  - Installing a Domain Controller by Using IFM

## **Managing Active Directory Domain Services Objects**

- Managing User Accounts
- Managing Groups
- Managing Computer Accounts
- Delegating Administration
- Lab : Managing Active Directory Domain Services Objects
  - Delegating Administration for a Branch Office
  - Creating and Configuring User Accounts in AD DS
  - Managing Computer Objects in AD DS

## **Automating Active Directory Domain Services Administration**

- Using Command-line Tools for AD DS Administration
- Using Windows PowerShell for AD DS Administration
- Performing Bulk Operations with Windows PowerShell
- Lab : Automating AD DS Administration by Using Windows PowerShell
  - Creating User Accounts and Groups by Using Windows PowerShell
  - Using Windows PowerShell to Create User Accounts in Bulk
  - Using Windows PowerShell to Modify User Accounts in Bulk

## **Implementing IPv4**

- Overview of TCP/IP
- Understanding IPv4 Addressing
- Subnetting and Supernetting
- Configuring and Troubleshooting IPv4
- Lab : Implementing IPv4
  - Identifying Appropriate Subnets
  - Troubleshooting IPv4

## **Implementing Dynamic Host Configuration Protocol**

- Installing a DHCP Server Role
- Configuring DHCP Scopes
- Managing a DHCP Database
- Securing and Monitoring DHCP
- Lab : Implementing DHCP
  - Implementing DHCP
  - Implementing a DHCP Relay Agent (Optional Exercise)

## **Implementing DNS**

- Name Resolution for Windows Clients and Servers
- Installing a DNS Server
- Managing DNS Zones
- Lab : Implementing DNS
  - Installing and Configuring DNS
  - Creating Host Records in DNS
  - Managing the DNS Server Cache

## **Implementing IPv6**

- Overview of IPv6
- IPv6 Addressing
- Coexistence with IPv4
- IPv6 Transition Technologies
- Lab : Implementing IPv6
  - Configuring an IPv6 Network
  - Configuring an ISATAP Router

## **Implementing Local Storage**

- Overview of Storage
- Managing Disks and Volumes
- Implementing Storage Spaces
- Lab : Implementing Local Storage
  - Installing and Configuring a New Disk
  - Resizing Volumes
  - Configuring a Redundant Storage Space

## **Implementing File and Print Services**

- Securing Files and Folders
- Protecting Shared Files and Folders by Using Shadow Copies
- Configuring Work Folders
- Configuring Network Printing
- Lab : Implementing File and Print Services
  - Creating and Configuring a File Share
  - Configuring Shadow Copies
  - Enabling and Configuring Work Folders
  - Creating and Configuring a Printer Pool

## **Implementing Group Policy**

- Overview of Group Policy
- Group Policy Processing
- Implementing a Central Store for Administrative Templates

- Lab : Implementing Group Policy
  - Configuring a Central Store
  - Creating GPOs

## **Securing Windows Servers Using Group Policy Objects**

- Windows Operating Systems Security Overview
- Configuring Security Settings
- Restricting Software
- Configuring Windows Firewall with Advanced Security
- Lab : Increasing Security for Server Resources
  - Using Group Policy to Secure Member Servers
  - Auditing File System Access
  - Auditing Domain Logons
- Lab : Configuring AppLocker and Windows Firewall
  - Configuring AppLocker Policies
  - Configuring Windows Firewall

## **Implementing Server Virtualization with Hyper-V**

- Overview of Virtualization Technologies
- Implementing Hyper-V
- Managing Virtual Machine Storage
- Managing Virtual Networks
- Lab : Implementing Server Virtualization with Hyper-V
  - Installing the Hyper-V Role onto a Server
  - Configuring Virtual Networking
  - Creating and Configuring a Virtual Machine
  - Using Virtual Machine Checkpoints